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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/717,413	11/21/2000	Owen H. Decker	FA0972 US NA	6493		
23906	7590 01/21/2003					
	NT DE NEMOURS AND	EXAMINER				
	TENT RECORDS CENTER ILL PLAZA 25/1128	SHOSHO, CALLIE E				
	ASTER PIKE					
	ON, DE 19805		ART UNIT PAPER NUMBER			
			1714	^		
			DATE MAILED: 01/21/2003	9		

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

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₹ -		Application No.	Olic	ant(s)				
O#**		09/717,413	DECK	ER ET AL.				
Office Action Summary	Examiner	Art Un	it					
The MAN WO DATE of the	Callie E. Shosho	1714						
The MAILING DATE of this comm Period for Reply	unication ap	ppears on the cover sh	eet with the correspo	ndence address				
A SHORTENED STATUTORY PERIOD THE MAILING DATE OF THIS COMMU - Extensions of time may be available under the provisi after SIX (6) MONTHS from the mailing date of this co - If the period for reply specified above is less than thirt - If NO period for reply is specified above, the maximum - Failure to reply within the set or extended period for re - Any reply received by the Office later than three mont earned patent term adjustment. See 37 CFR 1.704(b) Status	JNICATION. ions of 37 CFR 1. communication. ty (30) days, a rep n statutory period eply will, by statut ths after the mailir	.136(a). In no event, however, oly within the statutory minimul d will apply and will expire SIX te, cause the application to be	may a reply be timely filed m of thirty (30) days will be co (6) MONTHS from the mailing come ABANDONED (35 U.S	insidered timely. g date of this communication C. § 133).	n.			
1)⊠ Responsive to communication(s) filed on <u>12</u> /	<u>/26/02</u> .						
2a) ☐ This action is FINAL .	2b)⊠ T	his action is non-final						
Since this application is in condit closed in accordance with the pr Disposition of Claims					is			
4)⊠ Claim(s) <u>1,2 and 5-7</u> is/are pendi	ng in the ap	plication.						
4a) Of the above claim(s) is	s/are withdra	awn from consideration	n.					
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>1,2 and 5-7</u> is/are rejecte	∍d.							
7) Claim(s) is/are objected to	7) Claim(s) is/are objected to.							
8) Claim(s) are subject to res	triction and/o	or election requireme	nt.					
Application Papers								
9) The specification is objected to by								
10) The drawing(s) filed on is/ar		· · · · · · · · ·	•	-D 4.05()				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.								
If approved, corrected drawings are			•	ne Examiner.				
12) The oath or declaration is objected	•	• •	•					
Priority under 35 U.S.C. §§ 119 and 120	, 10 0, 110 =	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
13) Acknowledgment is made of a cla	im for foreig	ın priority under 35 U	S.C. & 119(a)-(d) or	(f)				
a) ☐ All b) ☐ Some * c) ☐ None o	J	, p. 1011. y an act act	o.o. 3 / (o(a) (a) o.	(7).				
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2. Certified copies of the priori	•							
3. Copies of the certified copies								
application from the Inte * See the attached detailed Office ac	ernational Bu	ureau (PCT Rule 17.2	?(a)).					
14) Acknowledgment is made of a claim	n for domest	tic priority under 35 U	.S.C. § 119(e) (to a p	provisional applicati	on).			
a) ☐ The translation of the foreign15)☐ Acknowledgment is made of a clair		· ·		121.				
Attachment(s)								
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review Information Disclosure Statement(s) (PTO-1449)		5) 🔲 No	erview Summary (PTO-41 tice of Informal Patent Ap er:					

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DETAILED ACTION

1. All outstanding rejections except for those described below are overcome by applicant's amendment filed 12/26/02, which has been entered.

Upon updating the searches, a new reference came to the attention of the examiner, namely, Rigosi et al. (U.S. 6,455,630) which was issued after the mailing date of the previous office action. In light of the new grounds of rejection utilizing Rigosi et al. as set forth in paragraph 7 below, the finality of the previous office action (mailed 9/20/02, Paper No. 7), has been withdrawn, and thus, the following action is non-final.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 3. Claims 1-2 and 5-7 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claims 1 and 5 have been amended to recite that "gloss value is decreased by at least twice as much as a coating composition comprising 0 wt.% of spheroidal particles and "flow parameters are decreased by no more than 1.5 times as much as the coating composition comprising 0 wt.% of spheroidal particles". It is the examiner's position that each phrase fails to satisfy the written description requirement under the cited statute since there does not appear to

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be a written description requirement of either phrase in the application as originally filed, *In re Wright*, 866 F.2d 422, 9 USPQ2d 1649 (Fed. Cir. 1989) and MPEP 2163.

As support for the recitation of the above phrases, applicants point to Table 9 of the present specification. In Table 9, when comparing comparative example 1, i.e. comprising no microspheres, with inventive example 4, i.e. comprising microspheres within the scope of the present claims, it is seen that the flow parameter of the inventive example is 1.5 times less than the flow parameter of comparative example 1 while the gloss of inventive example 4 is approximately 2.6 times less than the gloss of comparative example 1. Similarly, for the remaining three examples of Table 9, the gloss of examples 15, 17, and 19 is 2.1 times, 2.7 times, and 3.2 times lower, respectively, than the gloss of examples 14, 16, and 18 while the flow parameter is the same, 2.6 times, and 1.2 times less than flow parameter of examples 14, 16, and 18.

Thus, while there is support for the recitation that the gloss of the presently claimed powder coating composition is 2.6 times (or 2.1 times or 2.7 times or 3.2 times) less than the gloss of coating composition comprising 0 wt.% of spheroidal particles and the flow parameter of the presently claimed powder coating composition is 1.5 times less than (or then same as or 2.6 times less than or 1.2 times less than) the flow parameter of coating composition comprising 0 wt.% of spheroidal particles, there is no support to recite that the gloss is "decreased by at least twice as much" or that the "flow parameter is decreased by no more than 1.5 times as much". That is, in light of the claim language, i.e. "at least" or "no more than", the recitation in the claims as presently amended encompasses embodiments wherein the gloss of the present composition is decreased by at least 3 times, 5 times, 10 times etc. while the flow parameter is

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decreased by no more than 1.4 times, 1.3 times, 1.1 times, etc, for which there is <u>no</u> support in the specification as originally filed. There is only support for each of the specific embodiments as disclosed in Table 9 and discussed above.

With respect to the phrase "flow parameters are decreased by no more than 1.5 times as much as the coating composition comprising 0 wt.% of spheroidal particles", it is the examiner's position that this phrase additionally fails to satisfy the written description requirement under the cited statute given that there is no written description requirement of "flow parameters" in the application as originally filed.

That is, in the present specification including the examples, the applicants discuss only one type of flow parameter, i.e. Inclined Plate Flow at 375° F (see Tables 2-3). There is no support that all different types of flow parameters are "decreased by no more than 1.5 times as much coating composition comprising 0 wt.% of spheroidal particles". There is only support for the recitation of the one specific type of flow parameter set forth in the present specification.

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 1-2 and 5-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- (a) Claims 1 and 5 recite that the powder coating composition has "low gloss value and good flow parameters". The scope of the claims is confusing because it is not clear what is meant

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by each phrase. What values of gloss are considered low? How and when are the flow properties determined to be "good". What is meant by "good"? What does the phrase "flow parameters" encompass? Clarification is requested.

(b) Claims 1 and 5 each recite" gloss value is decreased by at least twice as much as a coating composition comprising 0 wt.% of spheroidal particles and "flow parameters are decreased by no more than 1.5 times as much as the coating composition comprising 0 wt.% of spheroidal particles". The scope of each of the claims is confusing because it is not clear what is meant by these phrases. For instance, how can the gloss values be "decreased" by "at least twice as much" as the gloss value of coating composition comprising 0 wt.% spherical particles? Does this phrase mean, for instance, that the gloss of the present composition is at least 2 times less than the gloss of coating composition comprising 0 wt.% spherical particles? Clarification is requested.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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7. Claims 1-2 and 5-7 are rejected under 35 U.S.C. 102(e) as being anticipated by Rigosi et al. (U.S. 6,455,630).

Rigosi et al. disclose powder coating composition comprising polyolefin including polypropylene and polyethyelene and 1-40% glass microsphere which has diameter of 30-70 μm. There is also disclosed a method for adding microsphere to powder coating composition (col.1, lines 6-7, col.2, lines 45-59, col.3, lines 3-38, col.4, lines 19-21, and col.7, lines 38-39).

Although there is no explicit disclosure of the median diameter of the microspheres given that the diameter of the microspheres ranges from 30-70 µm, i.e. maximum falls within 30-70 µm which overlaps value presently claimed, it is clear that the median diameter will inherently be greater than 10 µm as presently claimed.

Further, although there is no explicit disclosure regarding the gloss or the flow parameters, given that Rigosi et al. disclose powder coating composition comprising polyolefin and microsphere identical to that presently claimed, it is clear that the powder coating composition would inherently exhibit gloss and flow parameters identical to those presently claimed.

In light of the above, it is clear that Rigosi et al. anticipates the present claims.

8. Claims 5-7 are rejected under 35 U.S.C. 102(e) as being anticipated by Muthiah et al. (U.S. 6,017,640) taken in view of the evidence in *Encyclopedia of Polymer Science and Engineering*.

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Muthiah et al. disclose low gloss powder coating composition comprising resin including unsaturated polyester and polyacrylates and ceramic, hollow glass, or resin microsphere. There is also disclosed a method of reducing gloss by adding the microsphere to the powder coating composition (col.6, lines 13-16 and col.13, lines 53-55 and 62-63). Based on the ingredients present in the composition (see col.20, lines 23-37), it is calculated that the composition comprises 0.08-50% microsphere. Although there is no explicit disclosure of the median particle diameter and the maximum particle diameter of the ceramic or hollow glass microsphere, it is well known, as found in *Encyclopedia of Polymer Science and Engineering* that ceramic microspheres typically posses average particle size of 10-30 μm and maximum particle size of 5-60 μm (page 789) while hollow glass microspheres possess average particle size of 10-200 μm and average particle diameter of greater than 15 μm (pages 791-792).

In light of the above, it is clear that Muthiah et al. anticipate the present claims.

Response to Arguments

9. Applicants' arguments filed 12/26/02 have been fully considered but they are not persuasive.

Specifically, applicants argue that Muthiah et al. disclose laundry list of fillers with no disclosure or suggestion of which filler would produce composition with gloss and flow parameters as presently claimed.

However, it is noted that Muthiah et al. disclose that the fillers are used to "lower gloss". While there is no explicit disclosure of the diameter (maximum or median) of the filler, it is well

known as found in *Encyclopedia of Polymer Science and Engineering* that ceramic microspheres typically posses average particle size of 10-30 µm and maximum particle size of 5-60 µm (page 789) while hollow glass microspheres possess diameter of 10-200 µm and average particle diameter of greater than 15 µm (pages 791-792).

While it is agreed Muthiah et al. lists many other fillers, the fact remains that one of them is microspheres as presently claimed. Applicant's attention is drawn to MPEP 2131.02 (A) which states that "...when the species is clearly named, the species claim is anticipated no matter how many other species are additionally named". *Ex Parte A*, 17 USPQ2d 1716 (Bd. Pat. App. & Inter. 1990).

Given that the microspheres of Muthiah et al. possess diameter as presently claimed (in light of the evidence found in *Encyclopedia of Polymer Science and Engineering*), it is clear that the powder composition of Muthiah et al., which also comprises thermoplastic polymer as presently claimed, would inherently possess gloss and flow parameters as presently claimed.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Callie E. Shosho whose telephone number is 703-305-0208. The examiner can normally be reached on Monday-Friday (6:30-4:00) Alternate Fridays Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on 703-306-2777. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Callie E. Shosho

Examiner Art Unit 1714

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January 15, 2003